

DERWENT-ACC-NO: 1999-359668  
DERWENT-WEEK: 200130  
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TITLE: Machine for tissue paper production

INVENTOR: SCHMIDT-HEBBEL, H; TIETZ, M

PATENT-ASSIGNEE: VOITH SULZER PAPIERTECHNIK PATENT  
GMBH [VOIJ]

PRIORITY-DATA: 1997DE-1056422 (December 18, 1997)

PATENT-FAMILY:

| PUB-NO         | PUB-DATE          |          |
|----------------|-------------------|----------|
| LANGUAGE       | PAGES             | MAIN-IPC |
| EP 926296 A2   | June 30, 1999     | G        |
| 004            | D21F 011/14       |          |
| US 6235160 B1  | May 22, 2001      | N/A      |
| 000            | D21F 003/00       |          |
| DE 19756422 A1 | June 24, 1999     | N/A      |
| 000            | D21F 011/14       |          |
| JP 11241288 A  | September 7, 1999 | N/A      |
| 004            | D21F 003/02       |          |
| CA 2256108 A1  | June 18, 1999     | E        |
| 000            | D21F 011/02       |          |
| BR 9805673 A   | December 7, 1999  | N/A      |
| 000            | D21F 003/04       |          |

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB  
GR IE IT LI LT LU LV MC MK N  
L PT RO SE SI

APPLICATION-DATA:

| PUB-NO         | APPL-DESCRIPTOR  | APPL-NO |
|----------------|------------------|---------|
| APPL-DATE      |                  |         |
| EP 926296A2    | N/A              |         |
| 1998EP-0121245 | November 7, 1998 |         |

|                |                   |
|----------------|-------------------|
| US 6235160B1   | N/A               |
| 1998US-0213894 | December 17, 1998 |
| DE 19756422A1  | N/A               |
| 1997DE-1056422 | December 18, 1997 |
| JP 11241288A   | N/A               |
| 1998JP-0356175 | December 15, 1998 |
| CA 2256108A1   | N/A               |
| 1998CA-2256108 | December 16, 1998 |
| BR 9805673A    | N/A               |
| 1998BR-0005673 | December 15, 1998 |

INT-CL (IPC): B31F001/12; B31F001/29 ;  
D21F003/00 ; D21F003/02 ;  
D21F003/04 ; D21F009/02 ; D21F011/02 ;  
D21F011/14 ; D21H011/00

ABSTRACTED-PUB-NO: EP 926296A

BASIC-ABSTRACT: NOVELTY - The machine has a blanket (5) passing through the press gap (4) next to the web (1) and supporting it, which is permeable to water. Before the blanket (5) reaches the press gap (4), it passes over at least one suction extraction unit (6).

DETAILED DESCRIPTION - The blanket (5), together with the web (1), passes over the suction unit (6), with the web (1) on the outer side of the blanket (5).

The shoe press (2) has at least a number of press zones across the direction (7) of web travel, each with an independent control. The suction extraction unit is a suction roller (6). The blanket (5) takes the fiber suspension from the paper formation stage from the stock inlet (8).

The drying cylinder (3) acts as a tissue drying cylinder, where the dry web (1) is detached by a creping scraper (9).

USE - For manufacturing creped tissue paper.

ADVANTAGE - The assembly is simple, with the most intensive possible water extraction with bulking.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of part of the machine.

web 1

shoe press 2

press gap 4

blanket 5

suction roller 6

stock inlet 8

ABSTRACTED-PUB-NO: US 6235160B

EQUIVALENT-ABSTRACTS: NOVELTY - The machine has a blanket (5) passing through the press gap (4) next to the web (1) and supporting it, which is permeable to water. Before the blanket (5) reaches the press gap (4), it passes over at least one suction extraction unit (6).

DETAILED DESCRIPTION - The blanket (5), together with the web (1), passes over the suction unit (6), with the web (1) on the outer side of the blanket (5).

The shoe press (2) has at least a number of press zones across the direction (7) of web travel, each with an independent control. The suction extraction unit is a suction roller (6). The blanket (5) takes the fiber suspension from

the paper formation stage from the stock inlet (8).

The drying cylinder (3) acts as a tissue drying cylinder, where the dry web (1) is detached by a creping scraper (9).

USE - For manufacturing creped tissue paper.

ADVANTAGE - The assembly is simple, with the most intensive possible water extraction with bulking.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of part of the machine.

web 1

shoe press 2

press gap 4

blanket 5

suction roller 6

stock inlet 8

TITLE-TERMS:

MACHINE TISSUE PAPER PRODUCE

DERWENT-CLASS: F09 P72

CPI-CODES: F05-A04B; F05-A06A;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1999-106628